

### **In the Specification**

At page 8, lines 3 – 7, please replace the paragraph as follows (underlined denotes replacements additions and strikethrough notes deletions):

Another aspect of the present invention is that the remove option further includes determining whether a path has a persistent reservation, issuing a persistent reserve out with service option release set when the path is determined to have a persistent reservation and releasing the reservation when the ~~when the~~ path is determined to not have a persistent reservation.

At page 11, lines 14 – 16, please replace the paragraph as follows (underlined denotes replacements additions and strikethrough notes deletions):

Another aspect of the present invention is that the processing of persistent reservation commands comprises allowing all of the multiple paths to register with the logical unit number of the shared storage ~~system~~system.

At page 12, lines 17 – 19, please replace the paragraph as follows (underlined denotes replacements additions and strikethrough notes deletions):

Another aspect of the present invention is that the driver processes persistent reservation commands by allowing all of the multiple paths to register with the logical unit number of the shared storage ~~system~~system.

At page 17, lines 11 – 21, please replace the paragraph as follows (underlined denotes replacements additions and strikethrough notes deletions):

To implement this command in multipath configuration environment, all paths to a LUN on one host have to register with a LUN under the same Reservation Key, and only one of the paths needs to make the persistent reserve to the LUN with the reservation type of 'Exclusive Access, Registrants Only' at open time. All paths to the LUN from other hosts can register to the LUN all the time, but must be required to get persistent reservation to this LUN before they can

access it. With this reservation type, all the paths on one host, which are registered to that LUN can share and access this LUN. If this pseudo device driver is applied to a storage subsystem which does not support SCSI-3 Persistent Reserve commands, the pseudo device driver will switch to single path function automatically with a multiple path configuration of storage subsystem. [[.]]

At page 20, lines 19 – 29, and page 21, lines 1 – 5, please replace the paragraph as follows (underlined denotes replacements additions and strikethrough notes deletions):

Fig. 8 illustrates a flow chart 800 for the forced open option. When device open subroutine is called with the forced open option being set 810, the device tries to read the current Persistent Reservation Key 820. If a key is returned, the device first checks if the reservation key matches its key 830. If it matches its key ~~830~~880, the device does nothing because the LUN is reserved by the device. If a key is returned, and it ~~does~~does not match this device's reservation key 832, this reserved key is preempted and its queued tasks are aborted 840. The reservation of this LUN is stolen by this device and reservations are prevented by ~~the~~ setting the no reservation parameter 850. A determination is made whether this command completes successfully 852. If this command does not complete successfully 854, an error code is issued 856. If this command completes successfully 858, the device's reserved flag is set to the underpath index, which made this reservation 860. All the registered underpaths are opened with SC-NO-RESERVE option set to "ext" parameter to the operating system disk driver open routine 870. The LUN can be accessed and shared by all the underpaths of the device that registered with the LUN.

At page 22, lines 4 – 17, please replace the paragraph as follows (underlined denotes replacements additions and strikethrough notes deletions):

Fig. 10 illustrates a flow chart 1000 for the no reserve option. When device open subroutine is called with this option being set 1010, the device will read the current persistent reservation key 1020. To implement this procedure, all the underpaths register with "Register and Ignore Existing Key" to make sure all the underpaths are registered with the LUN. If there is

any underpath that has not registered with the LUN, that underpath will issue a Persistent Reserve Out command with the Register service action. If it fails again with this retry, this underpath will be ignored and skipped for the rest of ~~operation~~operation. Then a registered ~~underpaths~~underpath is selected to issue a Persistent Reserve In command with Read Reservation service action to get the current persistent reservation key.

At page 22, line 22, and page 23, lines 1 – 20, please replace the paragraph as follows (underlined denotes replacements additions and strikethrough notes deletions):

Fig. 11 illustrates a flow chart 1100 for the default reserve open option. When the device open subroutine is called with none of the above listed option being set, the open is default to RESERVE required. All the underpaths are registered with the LUN regardless of whether they are already registered at the configuration phase 1110. An underpath will issue a Persistent Reserve Out command with “Register & Ignore Existing Key” service action. The device issues a Persistent Reserve In command with Read Reservation to get current persistent reservation key 1130. A determination is made whether a key is returned 1132. If the key is returned 1133, a determination is made whether the key matches the devices reservation key 1134. If it ~~does~~does not match its own reservation key 1136, the driver fails the open call to the caller with EIO error code 1138. If the returned persistent reservation key matches the device’s reservation key 1140, all the registered underpaths are opened with SC-NO-RESERVE set to “ext” parameter 1142. If no persistent reservation key is returned 1144, a registered underpath is selected 1150. A Persistent Reserve Out command with Reserve service action 1152 is issued to make a persistent reservation with the LUN. A determination is made whether the command completes successfully 1154. If successful 1160, the device marks the reserved field with the underpath index which made reservation with the LUN 1170. All the registered underpaths are opened with “ext” parameter set to SC NO RESERVE 1180. If the reservation command fails 1156, the driver fails the open call to the caller with EIO error code 1158.